E. Engin Lib
Farnborough

FLIGHT

INDEX TO VOL. XXXVI

JULY TO DECEMBER, 1939

A

A.A. guns and fighters, Co-operation between, 379
"A" and "B" licensed pilots, "Indicator" on question of emergency uses for, 201
Abbotsinch, Ground boring tests at, 56
Accidents, Civil, 94, 97, 107, 158, 186, 529
—— Military, 7, 67, 84, 112, 141, 161, 180, 181, 205, 228
Adhesion, N. A. de Bruyne on, 534*a*
Aero Club d'Arbois rally, 62
Aero Engines, Vol. II (Book Review), 208*d*
Aero Engines, Pixie engine of, 461
Aero-Marine 40 K motor torpedo boat, Description and illustration of, 119
Aero O/Y, New Helsinki-Kemi service of, 56
Aerobatic contest at Frankfurt, 202*c*
Aerodrome Owners' Association conference at Perth, 15
Aerodromes, Delayed official opening of (Editorial), 21
Aeronca, Figures and illustration of, 225
Aeronautic Radio (Book Review), 32*b*
Aeronautical Patent Specifications, 48, 74, 146, 326, 340, 360, 384, 408, 428, 500
—— Research Committee, Annual reports of, 122*c*
Aeroplanes and Aero Engines (Book Review), 32*b*
Africa, New services in, 16, 139
—— Training costs in, 86*d*
Air Council, List of members of, 377
—— Defence Cadet Corps, Number of squadrons of, 10
—— Exercise, Description and illustration of, 150, 171
—— Exercises, Details regarding, 141
—— Exercises, Flying limitations during, 64
—— France—Imperial Airways, Pooling of London-Paris service of, 109
—— France, New president of, 139
—— France, Traffic figures for, 97
—— France Transatlantique's *Camille-Flammarion*, Figures for, 97
—— France Transatlantique's *Camille-Flammarion*, Test flight of, 226
—— League of British Empire, Annual general meeting of, 94
—— mail, Airline Feeder System apply for permission to carry, 204
—— mail fees, European, 372
—— mail, K.L.M. carry Empire, 204
—— mail loads, Increase of (Editorial), 147
—— mail, Picking up, 242*e*
—— mail postage rate in Australia, 188
—— mail, Scottish, 300*f*
—— mail, Suspension of Empire, 214
—— mail service to North Ronaldshay, Scottish Airways start, 108
—— mail service, Twentieth birthday of British, 406
—— Ministry appoint Director of Manning, 65
Airco Ltd., Temporary address of, 384
Aircraft Components appoint new director, 194
—— Precision Ltd., Precision work of, 408
—— Sale of, 350
—— Engineer, *see* FLIGHT, pages 122*a*–122*f* (August 3); 208*a*–208*d* (August 31); 294*a*–294*d* (October 5); 340*a*–340*d* (October 26); 416*a*–416*d* (November 23); 534*a*–534*d* (December 28)
Airframes, Erecting (illus.), 408
Airline equipment, A. Viator on new, 36
—— Feeder System, Applications for mail carrying by, 204
Airports Ltd., General meeting of, 534
Airscrew Co., Annual general meeting of, 72
—— diameters, Lt.-Col. Blyth on, 208*a*
Airscrews for models, Single-bladed, 518
—— recommended, Full-feathering, 491
Airships, Miles Henslow on, 61
—— for rescue work, 533
Airspeed Oxford, Description and illustration of, 435, 440*h*
—— Oxfords (illus.), 86*b*
—— Queen Wasp (illus.), 440*d*
Altimeters, New specification for, 56
Altitude, Artificial, 381
—— record, Danish weather service balloons gain, 110
—— record by sailplane, 518
Aluminium information bureau, Survey booklet of, 208
—— Licence needed for use of, 278
—— supplies, Germany's, 351
—— Union, Rolling mill plant ordered by, 262
Alvis Leonides, Description and illustration of, 461
Amateurs, "Indicator" on uses in war of, 242, 300
Ambulance, Scottish air, 325
America, Agreement between Canada and, 186
—— Aircraft orders in, 379, 490
—— -New Zealand survey flight, 204, 226
American aircraft for Allies, 496, 517
American Air Racing, R. C Morrison on, 344
—— engine factories, Impressions on visit to, 251, 263, 270*g*
—— machines, Comparison between British and (Editorial), 1
—— Neutrality Act, L. H. Engel on, 315
—— Neutrality Act, Repeal of (Editorial), 341, 350
—— production, 516
—— trade, L. Engel on, 514
Amiot 370 (illus.), 179
—— 143s (illus.), 379
Anderson, Sir John, on street lighting arrangements, 349
André, T. B., Death of, 170
Andrews, W. R., on "Aerodynamic figures of Merit," 122*a*
Anti-Aircraft gun, German (illus.), 281
—— gun of Vienna (illus.), 432
—— guns in Spain, 426
—— practice (illus.), 389
Apprentice clerks, Vacancies for, 205
Arado Ar 95, Drawing of, 82, 242*d*. 316*c*
—— Ar (illus.), 316*b*
Arc lamp booklet by Charles H. Champion, 208
Archbold expedition, 242*g*
Argentina, New Director General or Aviation for, 529
Armament of single-seaters, 508*a*
Armstrong-Siddeley Cheetah X and Cheetah XI (illus.), 464*f*
—— -Siddeley Cheetah IX and X, Description of, 461
—— -Siddeley Tiger VIII (illus.), 461
—— -Whitworth Eddystone (illus.), 39
—— -Whitworth Ensign, Description and illustration of, 445
—— -Whitworth Whitley, Damaged, 456
—— -Whitworth Whitley, Description and illustration, 436
Army Co-operation types of the Luftwaffe, 334*a*
Arpin pusher, Figures and illustration of, 218
—— pusher, G. A. drawing of, 224
"Artificial Altitude," 381
Asboth helicopter, Air Ministry order (Editorial), 173
—— helicopter, Details regarding (Editorial), 124
Atlantic air mail subsidy, 271
—— air services, Major Mayo on, 236, 246
—— company, New, 186
—— crossing, Freight transference on, 204
—— experimental flight by Cabot, 287
—— flights of Imperial Airways (Editorial), 295
—— High altitude test flights over, 16
—— months, Two, 301
—— More fruitless attempts to cross, 167
—— Raids on ships in (Editorial), 341
—— service, Imperial Airways' plans for, 97
—— services, Pan American Airways to increase, 529
—— Third British crossing of, 186
Australia, Aviation in, 363
—— Civil Air Reserve in, 490
—— Experienced pilots leaving, 110
—— Military aviation in, 365
—— not to send squadrons to Britain, 371
—— order Lockheed Hudsons, 228
—— Proposed new base in, 97
—— Resources and equipment of, 112*b*
—— Suggested new service by Guinea Airways in, 110
—— War production of, 314
Australian air mail postage rate, 188
—— Chief of Air Staff, Resignation of, 531
—— National Airways, Crash of Douglas D.C.2 of, 466
—— squadron of the Royal Air Force, 497
Autocar Guide for the "L" Driver (Book Review), 8*j*
Autocar, "Look after your Car" by, 390
Auxiliary Air Force, H.M. King visits, 369
Avery landing wheel (illus.), 468
Aviation Corporates agents for Harvey spot welder, 306
"A. Viator," First war contribution of, 277
—— flies blind, 407
Aviators' Certificates, H. E. Perrin on International, 372
Avro Anson, Description and illustration of, 436
—— Ansons (illus.), 264, 366
Axis Powers, Aircraft of, 51, 182*a*

B

Badge of No. 14 Squadron, 309
Bailey, Air Commodore G. C., Higher appointment of, 227
Balfour, Capt. H. visits Air Defence Cadet Corps camp, 17
Balfour Capt. H. H. opens Saunders-Roe club, 99
Balloon barrage comforts fund, 510
—— for weather soundings, Meteorological, 139
—— squadron promotions, 67
—— squadrons, Age limit raised for, 66
Balloons, Effect on pilots of barrage (Editorial), 101
—— of Danish weather service, Altitude record gained by, 110
—— over London, Barrage, 82
—— Truant, 452
—— Uses of (Editorial), 172
Baltic States, Trade in, 520
Banks, F.R. on Fuels and engines, 269, 280, 291
Barber and Colman screws (illus.), 468
Barratt, Air Marshal A. Sheridan, Higher appointment of, 227
Barrett, J., awarded D.F.C., 367
Bartlett, Capt. K. J. B. (illus.), 26
Barwell, Flt-Lt. P. H., awarded Distinguished Flying Cross, 458
Beard and Fitch, Bevel gear planer of, 193
Beaton, G. Ltd., E.-H. Fuel Injection Ltd., taken over by, 122
Beechcraft 18s. (illus.), 167
Belgian Air Force display, 29
—— pilots (illus.), 379
Belgium, Britain's apology for flying over (Editorial), 235
—— order British Power Boats, 145
Bellanca (illus.), 188
Bell Davies, Rear Admiral R. (illus.), 5
Bell experimental pursuit aircraft, Drawing showing armament of, 508*b*
Bendix-Scintilla sparking plug, 74
Berkshire Downs as bombing range, 423
Berlin-Istanbul service, 276
Berlin and Moscow, Service between, 421
Biplanes, "Indicator" flies old-type, 422
Birmabright Ltd., Brochure of, 428
Birmingham Airport, Description and illustration of opening of, 38
—— Airport, Description and illustrations of, 8*k*
Blackburn Aircraft, Annual general meeting of, 122
—— Aircraft Ltd., General meeting of, 534
—— Baffin (illus.), 180
—— Cirrus Major, Description of, 462
—— Roc, Mention and illustration of, 437
—— Skua 1, Description and illustration of, 125, 437
—— Skua, Figures for, 119
—— Skua, Nose view of, 481
—— Skuas (illus.), 40, 272, 440*g*
—— Skuas over Lee-on-Solent (illus.), 5
Blériot, M., Thirtieth anniversary of crossing of Channel by (Editorial), 76, 108, 111
"B" licensed pilots, Criticism regarding commissions for, 527
"Blighty," Resumption of publication of, 382
Blind approach system, United States Navy Department's, 86*d*
—— flying, "A. Viator" tries, 407
—— flying, "Indicator" on, 95, 112*d*
Bloch 151, Drawing showing armament of, 508*b*
—— 151 (illus.), 490*h*
—— 151, Illustration at Brussels Show of, 112*c*
—— 151C fighter (illus.), 41
Blohm and Voss, B.V.222 New trans-Atlantic machine of, 139
—— and Voss Ha 137, Drawing of, 82, 242*d*
—— and Voss Ha 138, Illustration and mention of, 530*b*
—— and Voss Ha 140, Illustration and mention of, 530*b*
Blount, Air Vice-Marshal C.H., New appointment of, 332
Blyth, Lt.-Col. J. D. on airscrew diameters and gear ratios, 208*c*
B.M.W. 132 Dc, Description of, 394
—— 132 Dc (illus.), 395
—— 132 Dc in Arado Ar 95 (illus.), 395
—— engine at Brussels Show (illus.), 28
—— VI as in Dornier Do 17 (illus.), 392
Boat, Collapsible rubber, 370
Boeing B-15 (illus.), 426
—— B-17, Details of flight of, 143
—— B-17 bomber (illus.), 112*c*
—— 307 Stratoliner, Flying illustration of, 254
—— 307 Stratoliner (illus.), 97, 515
—— 307 Stratoliner nearing completion, 398
—— 307 Stratoliner, Supercharging the, 55
—— 314, First fare-paying crossing of Atlantic of, 37
—— 314 (illus.), 514
—— 314s for Pan American Airways, 353
—— 314s transference of passengers (illus.), 13

Boeing 314 *Atlantic Clipper*, Slight damage to, 109
Bofors anti-aircraft gun (illus.), 504
Bomber Command, Activities of, 459, 505
Bombers, Escort for, 386
Bombs, High explosive, 339
—— Incendiary, 182
—— Penetration of, 272
Borkum, Raid over, 457
Boulogne Rally, Date of, 32
Boulton Paul Defiant, Description and illustration, 437
Bound, R.H., New appointment of, 194
Bowden International Trophy, Winner of, 317
Bowhill, Air Marshal Sir F., 199
Bramo Fafnir at Brussels Show (illus.), 28
—— Fafnir, Description of, 394, 395
Brazil, Argentine Air Force receives machines from, 112*b*
Breda 65, Drawing of, 53
—— 88, Drawing of, 53
—— 88 (illus.), 163, 182
—— S.A.F.A.T. gun (illus.), 508*a*
Breguet 690 (illus.), 69, 290
Brent, J. B. (illus.), 408
Brisbane, Flying boat base proposed at, 533
Bristol Aeroplane Co., Ltd., Annual General Meeting of, 145
—— Beaufort (illus.), 425, 438, 453, 498
—— Blenheim (illus.), 151, 510
—— Blenheim (long- and short-nosed), (illus.), 440*c*
—— Blenheim Mark IV (illus.), 288, 296
—— Blenheims, long- and short-nosed in workshops (illus.), 486
—— Blenheims, Refuelling of (illus.), 250
—— Blenheims for Singapore, 180
—— Bolingbroke flown in Canada, 481
—— Bombay, Description, illustrations and drawings of, 103
—— Bombay, Figures and illustration of, 443
—— engines, Illustrations of various, 464*d*
—— Hercules bulkhead (illus.), 490*c*
—— Hercules, Description of, 462
—— Hercules (illus.), 404, 490*b*
—— Hercules, Output of, 208
—— Mercury, Description and illustration of, 462
—— Pegasus XVIII, Description of, 462
—— Perseus engines, Winter service trials with, 67
—— Taurus, Description of, 462
British Air Line Pilots Association, Report for 1938–9 of, 41
—— Airways, Destruction of Lockheed Fourteen of, 158
—— Airways-Imperial Airways merger, 448, 449
—— Airways Lockheed 10A, Loss of, 186
—— Airways, New Finland service of, 204
—— Aluminium Company, New address of, 278
—— American Air Services, Fokker F.22 for, 188
—— Broadcasting Corporation, Navigational test course of, 94
—— Fleet, Attack on, 298
—— flying boats, First rescue by (correction), 283
—— Landing Gears' new tail wheel, 32*c*
—— Overseas Airways Corporation Bill, Debate on, 55
—— Overseas Airways Corporation, "Indicator" on, 58*a*
—— Overseas Airways, Members of board of, 436
—— Overseas Airways Corporation, More discussions regarding, 139
—— Oxygen welding equipment (illus.), 469
—— Power Boats for Belgium, 145
—— Runways Ltd., Soil treatment methods of, 48
—— Standards Institution, Table of hardness numbers by, 294
—— Steelwork Association, Basement air raid shelters of, 48
—— Thermostat Co. Ltd., Booklets of, 208
—— Thermostat Company's new Birmingham office, 20
—— Timken, Air raid precautions instruction booklet by, 278
—— Tyre and Rubber Co., Ltd., General meeting of, 534
—— Xylonite link with Distillers Co., Ltd., 208
Broadway Engineering Co., Ltd., Agency for Machine Tools and Manufacturers Ltd. taken by, 48
—— Engineering Co. appointed agents for W. B. Knight, 428
—— Engineering Co., Ltd., appointed Swiss agents, 234
Brockhouse Engineering (Southport) Ltd., Bonus for staff of, 520
Brooke-Popham, Sir R. retires from Kenya Governor's post, 272
Browett, J. Lindley (1931) Ltd., compressors, 170
Brown Brothers (Aircraft) Ltd., Gunk solution of, 383
Brown Bros. (Gt. Eastern Street) Business hours of, 428
—— David, Precision gear of (illus.), 467
—— Keith Kendle, Death of, 94
—— K. K., Workshop named after, 179
—— S. G., Headphones of (illus.), 468
Browning gun on Hawker Hurricane (illus.), 508*a*
Browning gun, Rifle-calibre (illus.), 508*a*
Brunsbüttel, Royal Air Force bomb, 257
Brussels Show, Illustration of accessories at, 58*b*
—— Show, Full description and illustrations of, 23
—— Show, Description of British exhibits at, 18
—— Prototypes flying in, 81
—— Air Force displays in (Editorial), 21
Bruyne, N. A. de, on Adhesion, 534*a*
Bucker, Jungmeisters (illus.), 69
Buffalo Airport (illus.), 251
Burgess, Capt. J. C. (illus.), 375
Burns, Sgt. J. G. B., awarded B.E.O. medal, 401
Bushing Co. Ltd., Moulded taper masts of, 99
Busk Studentship, 131

C

C.40 Autogiro (illus.), 218*a*
C.A.G. Book, The (Book Review), 165
Callenders Cable and Construction Company, Periodical of, 146
—— Cable and Construction Company, New fire-resisting cables of, 340
Camera, Damaged Dornier Do. 17 (illus.), 458
—— from back cockpit, Use of, 334*b*
Campbell, Sir Malcolm, Meyrowitz goggles worn by, 208
—— Sir Malcolm, Water speed record of, 191
Camrose, Lord, Ministry of Information appointment of, 256
Canada, Agreement between America and, 186
—— Mission to, 325
—— New research laboratories in, 132
—— Training school in, 308, 312, 427
—— Wartime aviation in, 530
Canadian aviation, 347
—— equipment, 481
—— officials (illus.), 512
—— squadron of Royal Air Force, 497
—— types of British aircraft (illus.), 532
Canadians in active service, 423
Cant Z.501 (illus.), 182*a*
—— Z506B, Drawing of, 53
Capel, Capt. A. J., Mention of R.U.S.I. lecture by, 297
Caproni Ca 135, Drawing of, 53
—— Ca 135, Figures for, 143
Casey, R. C., and family (illus.), 517
Caudron, C.713 (illus.), 490*h*
Cellon, Strip-sealing process (illus.), 470
Censorship, "A. Viator" on criticism regarding, 489
—— E. Gordon England on, 380
Central Flying School appoint Polish officers, 33
Ceylon, British training machines for, 205
—— Humorous letter regarding "Stratosphere Airship" for, 132
Chamberlain, Neville, Statement on the war by, 244, 259, 268 297, 348, 369, 399, 413 (Editorial), 429
—— Mr. Neville and Mrs. visit Fighter Command, 452
Champion, Charles H., Arc lamp booklet of, 208
Change of addresses, Notification of war period, 234
Chart of German military aircraft, 302
Chichester, Francis, on large number of instruments in aircraft, 334*g*
—— Francis, on "Raiding by Celestial Navigation," 156*d*, 182*e*, 202*f*, 237
Chilton, Figures and illustration of, 218*a*
—— Fixed slots for, 421
—— G. A. Drawing of, 224
—— Illustration of Train-engined, 183
—— Increased power for, 183
—— Mention and G. A. drawing of, 445
China and Germany, Proposed air service between, 529
Chrislea monoplane, Mention of, 445
Christen & Co., Appointment of agents for, 234
Christmas card, FLIGHT (illus.), 507
—— card fund, 452
—— cards and calendars, 490
Churchill, Winston, Statement on bombing of British Fleet by, 281
Ciamberline anemometer, Manufacture by Smiths Aircraft Instruments of, 262
Cinemas for the Service, Mobile, 288
Cinque Ports Aviation Ltd., Sub-contracting work for, 534
Cirrus Minor and Major (illus.), 464*g*
Civil Aeronautics Authority on airline subsidies, 528
—— Aeronautics Authority, New airport of, 139
—— Aeronautics Authority, Technical consultant for, 507
—— Air Guard certificate synchronisation, 17
—— Air Guard clubs, Advances for, 64
—— Air Guard figures, 32
—— Air Guard, Royal Air Force require members of, 272
—— Air Reserve in Australia, 490
—— Aircraft, Britain's, 445
—— Airports Joint Committee, Formation of London, 109
—— aviation, "A. Viator" on plight of, 489
—— aviation, "A. Viator" on resumption of, 334
—— Aviation Benevolent Fund, 11
—— Aviation Benevolent Fund, Garden party of, 94
—— aviation, Cessation of (Editorial), 210
—— aviation, Future of, 308
—— aviation in Sweden, 422
—— aviation and the war, H. A. Taylor on, 449
—— flying year booklet (Editorial), 22
—— restrictions, 255
Clark cabin monoplane (illus.), 252
Clay-Flex Union of Clayton Wright, 384
Clouston, Sqn.-Ldr. A. E., New Zealand honour for, 132
Clubs, Full description of, 230
—— Use of London, 319, 377, 401, 423, 497
Coastal Command, Activities of (Editorial), 385, 400, 454 (Editorial), 483, 504
Cobham, Sir Alan (illus.), 359
—— Sir Alan, on refuelling, 358
Cold, Pilots suffer severely from (Editorial), 342
Collins Aero Diary, Publication of, 382
Commercial aviation, Almost normal business of, 374
—— structures, Description and illustrations of Telefex factory designs of, 19
Commissions for duration only, 402
—— for merit (Editorial), 328
—— Methods of granting (Editorial), 522
Companies registered, New, 74, 99, 146, 170, 194, 278, 326, 384, 428, 520
Components and materials, List of manufacturers of, 467
Composite reconnaissance (Editorial), 341
Connor Park aerodrome (Australia) (illus.), 242
Consolidated 28–5, Arrival of, 65
—— 28–5, Comparison between Short Sunderland and (Editorial), 50
—— 28–5, Description and illustration of, 132*a*
—— 28–5 (illus.), 11, 66
—— PB2Y adopted as flying flagship, 379
—— PBY, Atlantic survey flight of, 57
—— PBY on Indian ocean survey, 16
Constructors Ltd., Consol steel shelters of, 278
Continental A-50, A-65 and A-75, Mention of, 462
Controlled zones, Two more British, 110
Cook, Rear-Admiral A. B. adopts flagship, 379
—— Strait Airways, Amended address of, 37
Cook's, Round-the-world tour by air of, 109
Cookson and Clegg, Helmets by, 262
Copenhagen International Chamber of Commerce Congress, Air-rail tickets to, 131
—— and London, Service between, 421
Cordingley, Group-Capt. J. W., Appointed Director of Manning, 65
Cornercroft Ltd., Annual general meeting of, 208
Correspondence, 9, 156*a*, 177, 323, 380, 527
Cosford Magazine, 181
Courageous, H.M.S., Loss of (Editorial), 250, 256
—— H.M.S., Story of sinking by Captain of, 281
Coventry Victor, Description of, 462
Cracow, After bombing of (illus.), 492
Craigavon, Lord, visits Short and Harland (illus.), 107
Cressall Mfg. Co., Unit heater leaflet of, 326
Croager Bros., Catalogue of, 534
Crompton Parkinson, New appointments of, 383
Crosby Cr-4 (illus.), 344
—— Gordon, Christmas card picture of, 452
Crownall pipe coupling, 278
Croydon Engineering Co., New lightweight motors of, 340
—— Engineering light electric motor (illus.), 470
—— Week at, 13, 36, 54, 96, 108, 138, 157, 185, 203
Cunliffe-Owen, A.R.P. control room of, 519
—— -Owen O.A. Mark II, Figures and sketch of, 446
Curtiss bombers, Formation of (illus.), 403
—— Hawk 75A, Drawing showing armament of, 508*b*
—— Hawk 75A (illus.), 282, 415
—— P.36A (illus.), 107
—— P.42 (illus.), 339
—— P.42, Mention of, 345
—— -Wright CW-20, Figures for, 529
—— XSO-3C1 (illus.), 426
Customs of the Service (Book Review), 32*b*

D

Daimler Benz DB 600, Description and illustration of, 392
—— Benz DB 601 as in Dorniers, Description and illustration, 392
—— Benz DB 601 as in Heinkel He 112U (illus.), 393
Danish Air Lines service to Copenhagen, 420
Dart Weasel, Mention and G. A. drawing of, 446
Dawn patrol at Shoreham, 156*f*
Deauville Rally, Date of, 32
—— Rally, Entries for, 86*a*
De Havilland 86, Air Council's (illus.), 39
—— engines, Mention of various, 463
—— 95 (Flamingo) at Guernsey, 54, 201
—— 95 (Flamingo) (illus.), 445
—— 95s (Flamingo) for Jersey, 204
—— Flamingo, Marconi equipment for, 242*g*
—— Flamingo in service with Jersey Airways, 57
—— Flamingo over Jersey (illus.), 124
—— Gipsy Twelve and Minor (illus.), 464*h*
—— Moth Minor, Description and illustration of, 218*a*
—— Moth Minor, G. A. drawing of, 218*c*
—— Moth Minor, Flying impressions of, 202*a*
—— Moth Minor (illus.), 202*a*
—— Queen Bee (illus.), 438
—— Rapide (illus.), 203, 512
—— Technical School, 534*d*
—— Tiger Moth, Description of, 438
—— Tiger Moth, Figures and illustration of, 218*d*
Department of Overseas Trade, New address of, 519
Desoutter bolt-milling cutter (illus.), 194
—— "B" type ¼-in. drill, Description and illustration of, 48
—— Mighty Atom drill (illus.), 470
D.E.T.A. Airlines, Extension of services of, 139
Dewoitine D.510 (illus.), 379
—— D.520 (illus.), 490*h*
Dickson all-metal laminated casket, 408
Director of Works, Appointment of new, 33
Distillers Co. Ltd., link with British Xylonite Co., 208
Distinguished Flying Cross awards, 367
—— Flying Cross, Those eligible for, 401
Dive bombers, Germany's, 270*a*
D.N.L., New service to London of, 109
Doran, K. C., awarded D.F.C., 367
—— —— Sqn.-Ldr. K. C. (illus.), 337
Dornier bombers, 350*a*
—— Do.17 bombers (illus.), 334*d*, 351, 356
—— Do.17 brought down (illus.), 459
—— Do.17, Drawing of, 52, 242*b*, 350*c*, 350*d*
—— Do.17, Remains after crash of (illus.), 339
—— Do.18, Drawing of, 51
—— Do.18K's brought down (illus.), 330
—— Do.18K, Description and illustration, 372*b*
—— Do.18K, Cut-away drawing of, 372*d*
—— Do.19, Illustration and mention of, 530*d*
—— Do.23, Drawing of, 242*c*
—— Do.24, Drawing of, 51, 372*a*
—— Do.24, First flight of, 86

Dornier Do.26, Description and illustration, 372*d*
—— Do.215, Drawing of, 242*b*, 350*a*
—— Do.215 (illus.), 12, 350*d*
—— Flying Boats, The, 372*a*
Douglas B-18-A bomber (illus.), 202*h*
—— DB-7 (illus.), 207, 316
—— DB-7, Mishap to (illus.). 378
—— D.C.2's and D.C.3's in hangar (illus.), 352
—— D.C.3's for Eastern Air Lines, 407
—— D.C.3, Gunning the (illus.), 506
—— D.C.3 over Niagara (illus.), 156*b*
—— D.C.4 (illus.), 253
—— D.C.4 for Japan, 466
—— D.C.4, Scaling down of, 507
—— D.C.4, United Air Lines order six, 109
—— D.C.5 (illus.), 528
—— D.S.T. (illus.), 156*b*
—— D. W., awarded Guggenheim medal, 495
—— " Kyeema," Report on fatal crash of, 363
—— (Northrop) 8-A for Holland, 377
Dowding, Air Chief Marshal Sir Hugh (illus.), 198, 243
Drag, J. Lockwood Taylor on induced, 122*f*
—— C. F. Toms on induced, 294*a*
Drill, " Indicator " on need for, 314
—— modifications, 401
Drop hammer, High Duty Alloys' new, 191
—— hammer dies. General Aircraft's, 326
D.R.P. Velox V-8 (illus.),
Dublin and Liverpool, Service between, 448
Dunlop's Anticer (illus.), 471
—— Rubber Co., Finance controller for War Office, 396*d*
—— Rubber Co., H.R.H. Duchess of Kent visits, 86*d*
Duration record, 202*c*
Dutch machine, Germany attack, 284
—— markings on military aircraft, 426
—— 'planes, New markings for, 284

E

E. and R. C. 310 (illus.), 217
Eastbourne Garden Party, 164
Eastern Air Lines order Douglas D.C.3's, 407
Eire, New aerodrome for, 121
Elliott, A. G., on liquid-cooled engines, 464*i*
Ellison Insulations appoint new manager, 208
—— Insulations' Tufnol aerial mast (illus.), 20
Embankment, Infra-red photograph of, 334*e*
Empire Air Day, Amount raised at, 354
—— Chamber of Commerce Congress, Brief report of, 97
—— training scheme, 401, 448, 513, 516 (Editorial), 521
Engel, L. H., on American trade, 514
—— L. H., on Neutrality Act of America, 315
Engine factories, J. I. Waddington on American, 251, 263, 270*g*
—— Jameson Aero Engines' two-stroke, 144
Engineering Corporates Ltd., Electric engraving pencil of, 72
Engines, Britain's aero, 461
—— Changing of, 404 (Editorial), 502
—— A. G. Elliott on liquid-cooled, 464*i*
—— A. H. R. Fedden on war and aero, 490*a*
—— " Indicator " on comparison between British and American, 134
England, E. C. Gordon (illus.), 434
Engraving, Electric pencil for (illus.), 72
Equations, E. J. Richards on solution of simultaneous, 208*c*
Esbjerg, Accidental bombing of, 244
Estimate, Amount of supplementary (Editorial), 50
Estonia, Regulations regarding flight to, 466
Evere display, 29
—— Prototypes flying at, 81
Examinations for Fleet Air Arm, Need for entrance (Editorial), 102
" Exhaust Efflux Propulsion," Dr. F. Lanchester on, 396*a*, 416*d*, 480, 495
—— Efflux Propulsion," Letters regarding, 526
Exhibition at Charing Cross Station, 10
Export Trade, E. C. Gordon England on, 434
Exports, Details of British, 10

F

Factories, Press visits to British, 485
Fairbairn, J. V. (illus.), 517
Fairchild, Figures and illustration of, 225
—— (illus.), 188
Fairey Albacore, Description and illustrations of, 161
—— Albacore (illus.), 102, 439
—— Battle, Belgian (illus.), 379
—— Battle, Description and illustration of, 439
—— Battle in air battle, Use of, 297
—— Battle (illus.), 288, 412
—— Battle squadron in France, 411
—— Battles bombing in France (illus.), 413
—— Battles, Formation of, 30
—— F.C.1, Mock-up description and illustration of, 32*d*
—— Foxes, Formation as figure XXV by, 30
—— P.4/34 at Brussels Show (illus.), 25
—— P.4/34, Description and illustration of, 439
—— Swordfish (illus.), 297, 310, 440*g*
—— Swordfish, Mention of, 439
Fedan, S., New position with Everel Propeller Corporation of, 170
Fedden, A. H. R., on war and the aero engine, 490*a*
Federation Aeronautique Internationale Conference, Proposed discussions at, 133
—— Aeronautique Internationale, Confirmation of world's speed record by, 133
—— Aeronautique Internationale, Date for, 17
Federation Aeronautique Internationale, Issue of aviators' certificates by, 372
Ferry pilots' work, " Indicator " on, 373
—— piloting by women, 490
Fiat B.R.20 (illus.), 182*a*
—— C.R.32, Drawing of, 53
—— G.50, Drawing of, 53
—— G.50, Drawing showing armament of, 508*b*
Fieseler Storch (illus.), 334*c*
Fighter Command, Activities of (Editorial), 456
—— Hypothetical (illus.), 508*b*
—— pilots with Observer Corps, 481
—— squadrons, J. M. Spaight on suggestion for more 63
Fighters and A.A. guns, Co-operation between, 379
—— of the Luftwaffe, 286*a*
—— Multi-guns in British (Editorial), 430
—— The Opposing, 490*e*
Finland, Gallant defence by, 494
—— Government help for, 533
—— Invasion of (Editorial), 454
Finnish air services, Renewal of, 507
—— State Aircraft works, New fighter of, 86
Fire extinguishers approved by Air Ministry, 192
—— -fighting installations, 99
Firth of Forth, Fierce air battle over, 492
—— of Forth, Raid on, 330, 348
—— Thos., and John Brown, Wall card of, 416*c*
Fleet Air Arm, Advancement in flying branch of, 67
—— Air Arm, Entries in, 336
—— Air Arm, Instructions on guns in, 377
—— Air Arm unit at Lee-on-Solent visited, 3
Fleetwing Seabird (illus.), 252
Flight cup, Description and illustration of winning model, 46
—— index, 188
—— postcards, Addition to series of, 427
Florinne helicopter (illus.), 58
" Flutter Speed " by J. C. K. Shipp, 340*c*
Flying boats safe in Atlantic, J. I. Waddington on (Editorial), 251, 263
—— boats attacked, German, 400
—— boats, Rough water operation of, 228
Flying Wisdom (Book Review), 534*d*
Focke-Wulf Condor, High-speed delivery of, 97
—— -Wulf Condor for Japan, 529
—— -Wulf Fw.57, Drawing and mention of, 530*c*
—— -Wulf Fw.159, Drawing of, 531
—— -Wulf Stoesser (illus.), 324
Fokker D.23, Description and illustration of, 86
—— D.23, Drawing showing armament of, 508*b*
—— F.243 for K.L.M., New, 353, 421
—— T.8-W torpedo bomber seaplane (illus.), 41
—— T.9 (illus.), 321
Folkstone Trophy Race, Description and illustrations of, 136
Forced landings at sea, 197
Formidable, H.M.S. (illus.), 180
Forth Bridge from the air (illus.), 386
Foster Wikner Wicko, Figures and illustration of, 224
—— Wikner Wicko, G. A. drawing of, 218*c*
—— Wikner Wicko Windsor, Mention and G. A. drawing of, 448
Fox and Nicholls, Shop of (illus.), 471
Foynes and Schiphol, Projected service between, 396
Francis, H. A., New appointment of, 74
Franklin-Carter profile projector, 193
French Air Ministry, Publication of two days' fighting by, 283
—— air victory, 371
—— bombers, " Raids " by, 180
—— movements in Poland (Editorial), 236
—— transatlantic plans, 466
" Frog Senior " International Cup, Winner of, 317
Fuel, Germany's home-produced (Editorial), 279
" Fuels and Engines," by F. R. Banks, 269

G

" Gadgetry," Civil pilots getting accustomed t (Editorial), 327
Gallay Ltd., Cabin-heating methods of, 122
Gamelin, Gen., War methods of (Editorial), 361
Garrod, Air Vice-Marshal A. G. R., Higher appointment of, 227
Gaumont-British news, Fairey Battle photos of, 412
Gear ratios, Lt.-Col. Blyth on, 208*a*
General Aircraft, *Cygnet* booklet of, 428
—— Aircraft Cygnet, Description, drawing and illustration of, 42, 218*b*, 218*d*, 219, 446
—— Aircraft, Drop hammer dies of, 326
—— Aircraft, Rivet clamps of, 472
—— Electric Co., Denial regarding mention of Osram G.m.b.H. by, 278
—— Electric Co., Number of employees serving, 278
German aircraft production, 311
—— Air Force equipment, 242*a*
—— Air Force, Growth and organisation of, 300*k*, 324
—— bombers, Tactics of (Editorial), 327
—— defence (illus.), 505
—— fighters versus British bombers (Editorial), 501
—— machine-gun, 207
—— military aircraft, Chart of, 302, 396*b*
—— Prototypes, some, 530*a*
—— seaplanes, 316*a*
Germany, Air laws of, 86*a*
—— and China, Proposed air service between, 529
Germany's Aero Engines, 391
—— aluminium supplies, 351
—— dive bombers, 270*a*
—— .312-in. gun (illus.), 508*a*
Gifford, P., awarded Distinguished Flying Cross, 458
Glasgow-Campeltown air mail, 300*f*
Glasgow, New airport for, 204
Gliders, Goal-flying of three, 167
—— Winner of King Peter Cup for model, 120
Gliding Contest at Elmira, International, 167
—— contest, National, 41, 86*a*, 86*b*
—— record, 11, 32
Gloster Aircraft, New director of, 396
—— Gladiator, Description and illustration of, 439
—— Gladiators, Formation of, 31
—— Sea Gladiator (illus.), 440*e*
—— Sea Gladiator, Mention of, 439
Gloucester, H.R.H. the Duke of, Appeal for Red Cross by, 270
Goble, Air Vice-Marshal S. J., resigns, 531
Goering, Field-Marshal, on Britain's leaflet dropping in Germany (Editorial), 235
Goggles, Latest Meyrowitz, 383
Goodchild, Sgt. H. J., Distinguished Flying Medal awarded to, 65
Goose-stepping by Luftwaffe (illus.), 433
Gordon Bennett balloon race. Date for, 64
Gosport reunion dinner, Date for, 35
—— reunion dinner, Description and illustration of, 85
Gossage, Air Vice-Marshal E. L. (illus.), 200
Graf Spee (illus.), 502
Graf Zeppelin, Flight near Scotland of, 131
—— Zeppelin, Reported destruction of, 282
Grangemouth Airport, Opening description and illustrations of, 14
Graveley, F/O R. C., awarded medal for gallantry, 414
Graviner Manufacturing Co. Ltd., Booklet on fire-fighting by, 208
—— Manufacturing Co., Extension of factory of, 408
—— Manufacturing Co.'s fire extinguisher (illus.), 472
—— Manufacturing Co. Ltd., Fire extinguisher of, 192
Gray, W. E., on killing the stall, 340*a*
—— W. E., Natural dual control by (illus.), 110
Grey, C. G., Retirement of, 200
Grunan Baby, Flying illustration of, 118
Gudgeon pin, Merlin, 169
Guest, Keen and Nettlefolds, Locating screw of, 208
Guggenheim medal, 496
Guild of Air Pilots and Navigators, War Emergency Committee of, 496
Gun, Description of Vickers K. machine, 86*f*
—— German machine-, 207
—— positions, Suggestions of *The Times* regarding (Editorial), 102
—— Recoil by G. F. Wallace, 416*a*
Gunk 901 compound, 383
Gunners, Applicants wanted as, 401
G.W.B. Electric Furnaces, Exhibits at Olympia of, 170

H

Habershon and Sons appoint technical director, 20
Hamley Trophy, Winner of, 120
Handley Page, Annual general meeting of, 145
—— Page Hampden, Canadian-built, 110
—— Page Hampden, Description and illustration of, 440, 440*b*
—— Page Hampdens (illus.), 275, 454
—— Page Harrow bomber (illus.), 187
—— Page Harrow tanker (illus.), 358
—— Page Hereford, Drawing of, 343
—— Page Hereford (illus.), 454
—— Page Hereford, Mention and illustration of, 443
—— Page, F., re-elected Vice-Chairman of Royal Aero Club, 17
Hardness numbers B.S. No. 860, British Standards Institution's table of, 294
Hardweld 50 carbon steel electrode, 234
Hart, Capt. Liddell, on Air Arm defence (Editorial), 75
Harvey spot welder, 306
Hawker Demons (illus.), 388
—— Fury (illus.), 88
—— Henley (illus.), 440*d*
—— Hinds (illus.), 322
—— Hotspur, Description and illustration of, 441
—— Hurricane attacking Dornier Do.17 (illus.), 397
—— Hurricane, Description and illustration of, 440, 440*a*
—— Hurricane, Drawing of, 490*f*
—— Hurricane, Drawing showing armament of, 508*b*
—— Hurricane, Figures for, 423
—— Hurricane (illus.), 30, 156, 257, 283, 312, 430, 490*e*
—— Hurricane *versus* Messerschmitt, 490*e*
—— -Siddeley Aircraft Co. Ltd., New appointments at, 45
Heater leaflet, Cressall Mfg. Co.'s unit, 326
Heinkel bomber crash (illus.), 414
—— bombers, Squadron of (illus.), 242*a*
—— He 51's (illus.), 324
—— He 59 (illus.), 316*b*
—— He 60 (illus.), 316*a*
—— He 70, Illustration and mention of, 530*a*
—— He 111 bombers, Full details of, 256*a*
—— 111 brought down (illus.), 348
—— He 111 (illus.), 163, 256*a*, 450
—— He 111K, Drawing of modified version of, 242*b*
—— He 111K, Drawing of, 51, 242*b*
—— He 111K (illus.), 182*a*, 523
—— He 112, Cut-away drawing of, 286*a*
—— He 112U, Drawing of, 52, 242*d*, 490*f*
—— He 112U (illus.), 286*d*
—— He 114 (illus.), 316*a*
—— He 115, Drawing of, 242*c*
—— He 115 (illus.), 316*d*
—— He 118, Illustration and mention of, 530*a*
—— He 170K, Illustration and mention of, 530*d*
—— He 270 (illus.), 270*e*
Heinkels, Description of, 286*a*

Helicopter, Air Ministry order Asboth (Editorial), 173
—— Details regarding Asboth (Editorial), 124
Heligoland Bight, Royal Air Force attack, 284, 457, 459, 501, 504, 523
Helmets by Cookson and Clegg, Ltd., 262
Helsinki, Service discontinued to, 466
H. engine under development, 491
Henschel Hs.123, Drawing of, 52, 242*d*
—— Hs.123 (illus.), 270*e*
—— Hs.124, Drawing and mention of, 530*c*
—— Hs.125, Illustration and mention of, 530*d*
—— Hs.126, Drawing of, 52, 242*d*, 334*b*
—— Hs.126 (illus.), 334*a*
Henshaw, Alex, appointed Supermarine test pilot, 516
Henslow, Miles, on airships, 61
—— Miles, on flight with a Queen Bee, 182*b*
Hepworth and Grandage, Ltd., Gudgeon pins of, 122
Herts and Essex Aero Club reunion dinner, 513
High altitude Atlantic test flights, 16
—— altitude investigations, 270
—— Duty Alloy, Cylinder heads of (illus.), 473
Higher Appointments, 82, 227
Higher Command of Royal Air Force, 198
Hills, F. and Sons, Ltd., Annual general meeting of, 48
Hillson Helvellyn, Figures of, 219
—— Helvellyn, G.A. drawing of, 224
Hispano Suiza motor-cannon (illus.), 509
Hitler, Herr, Broadcast speech by, 268
Hobson H.M. (Aircraft and Motor) Components Ltd., General meeting of, 534
Holland, Air view of flooding in, 410
—— Douglas (Northrop) 8A for, 377
—— Expected invasion of, 400
Holloway, Mr. E., Appointment as Director of Works of, 33
Howard-Flanders, R. L., Death of, 184
How to Become an Air Pilot (Book Review), 11
" How we Fly " handled by Virtue & Co., 353
How we Fly (Book Review), 200
Hughes, Howard, Plans for flight in stratoliner of, 202*c*
Hunter, Frank O'D. in command of experimental American air force, 339
Hurricane *v.* Dornier, 397
Hyderabad, Gift by Nizam of, 415

I

Ice formation (Editorial), 484
—— protection, Foreign airlines' superior methods of, 37
Iceland, Internment of British crew in, 282
Illness of relatives, Leave for R.A.F. for, 510
Il Volo in Italia (Book Review), 32*b*
Imperial Airways-Air France, Pooling of London-Paris service of, 109
—— Airways, Atlantic flights of (Editorial), 295, 301
—— Airways, Atlantic plans of, 56
—— Airways, A. Viator on new hangars of, 54
—— Airways-British Airways merger, 448, 449
—— Airways-British Airways merger, Group-Capt. H. Primrose's criticism against, 37
—— Airways " C " class boat *Challenger*, Official accidents report of, 188
—— Airways' *Calpurnia*, Report on accident to (Editorial), 49, 55
—— Airways, Cessation of Empire passenger-carrying by (Editorial), 147, 159, 173
—— Airways' *Connemara*, Suggested reason for fire in, 109
—— Airways, Damage to *Australia* of, 158
—— Airways' *Dardanus*, arrival in Hong Kong of, 529
—— Airways' *Dardanus* forced down in Japan, 421
—— Airways " E " class liners, Delivery of, 108
—— Airways, First British Atlantic crossing of, 158
—— Airways landplane service to India, 421
—— Airways' *Maia* as trainer, 56
—— Airways, More new services of, 334*h*
—— Airways order American engines, 406
Impervia, Ltd., Specialised rubber products of, 340
India, Imperial Airways landplane service to, 421
—— Meteorological flights in, 319
—— Training in, 448
Indian ocean survey flight, 16
—— Ocean survey flight, Some impressions of, 159
—— Prince as rigger, 510
" Industrial Overture " (Brochure of City of Leicester), 383
Industry number, Introduction to aircraft, 431
Infra-red photographs from air, Uses of, 334*e*
Initial Training Wings, 285
Initials, Various meanings in wartime of (Editorial), 264
Innocenti, Signor, Engine of (illus.), 380
Institute of Metals continuing activities, 359
Instrument and Radio Flying (Book Review), 165
Instrument catalogue, Short and Masons new, 383
Instruments in aircraft, F. Chichester on large number of, 334*g*
Insurance, Capt. A. G. Lamplugh on personal, 351
Intava, Ltd., in service, Members of staff of, 500
Interavia, Temporary address of, 384
" Interchangeability," 404
International Air Congress, Date for 1940 session of, 45
—— Commission for Air Navigation, 27th session in Copenhagen of, 16
—— Flying meeting, Regulations for, 32
Introduction to Astronomical Navigation, An (Book Review), 318
Iron Duke, Attack on, 332
Isle of Man and Liverpool, Restricted services between, 466
Italian survey flight over Cape Verde Islands, 186

J

Jamaican for Royal Air Force, First, 497
Jameson Aero Engines, Two-stroke engine of, 144
Japan, Douglas D.C.4 for, 466
—— German machines for, 529
Japanese Airways, New service to Bangkok of, 466
—— bombing tactics, 510
—— world flight, 214
Jenkins, Lt.-Col., Death of, 384
Jersey Airways, De Havilland 95s ordered by, 204
—— Airways, Fares of, 507
Johnson, Flt.-Lt. (illus.), 359
Jones, E. H., Dust extractor of, 306
—— E. H., machine tools (illus.), 473
—— H. K. (illus.), 26
Junkers bombers, 300*a*
—— Ju.52 of Danish Air Lines (illus.), 420
—— Ju.52 (illus.), 186
—— Ju.86, Accident to, 97
—— Ju.86K, Drawing of, 52, 242*c*
—— Ju.87 at Brussels Show (illus.), 25
—— Ju.87, Drawing of, 52
—— Ju.87 (illus.), 270*d*
—— Ju.88, Drawing of, 416
—— Ju.88 (illus.), 300*a*
—— Ju.88, More details regarding, 416
—— Ju.88, New record for, 116
—— Ju.89, Drawing of, 242*b*
—— Ju.90 (illus.), 134, 173
—— Jumo 205, Description of, 393
—— Jumo 205 as in Junkers Ju.86 (illus.), 394
—— Jumo 210, Description and illustration of, 391
—— Jumo 210, Two-speed supercharger of (illus.), 393
—— Jumo 211 as in Ju.88 (illus.), 393
—— Jumo 211, Description and illustration of, 392
—— Jumo 211, Sketch of, 394
J.V.W. Corporation, Link trainer of (illus.), 474

K

" Kabee " model mid-wing monoplane, 518
Kelvin, Bottomley and Baird, New address of, 519
Kemp, W. P. (illus.), 107
Kensington Court (illus.), 266
Kidde, The Walter Co. Ltd., Fire extinguishers of, 99, 193
Kiel Canal, Royal Air Force raid on, 244, 257
—— Canal raid, Awards for, 319
King, H. F., German articles by :
" Those Heinkel Bombers," Sept. 21, 256*a*
" Germany's Dive Bombers," Sept. 28, 270*a*
" Fighters of the Luftwaffe," Oct. 5, 286*a*
" Junkers bombers," Oct. 12, 300*a*
" German seaplanes," Oct. 19, 316*a*
" A.C. Types of the Luftwaffe," Oct. 26, 334*a*
" The Dornier Bombers," Nov. 2, 250*a*
" The Dornier Flying Boats," Nov. 9, 372*a*
" Germany's Aero Engines," Nov. 16, 391
" The Opposing Fighters," Dec. 14, 490*c*
" Armament of single-seaters," Dec. 21, 508*a*
" Some German Prototypes," Dec. 28, 530*a*
—— H.M. of Belgians visits Brussels Show, 145
—— H.M. of Belgians visits Holland, 400
—— H.M., Appointment of new aide-de-camp to, 33
—— H.M. grants awards for gallantry in Waziristan, 354
—— H.M. with British Expeditionary Forces (illus.), 484
—— H.M. Christmas cards for, 510
—— H.M. receives badge of National Pigeon Service, 497
—— H.M. presents decorations in France, 492
—— H.M., Conferring D.F.C. (illus.), 367
—— H.M. (illus.), 243, 431
—— H.M. Message to people of (Editorial), 210
—— H.M. sends message to Air Vice-Marshal Playfair, 523
—— H.M., Message to Royal Air Force of, 243
—— H.M., Royal Air Force awards by, 65
—— H.M. at Royal Air Force station (illus.), 367
—— Mackenzie (illus.), 517
King's Cup Race, Cancellation of, 202*d*
—— Cup Race, Final particulars concerning (Editorial), 123, 132, 133
—— Cup Race, Preparations for, 177
—— Cup Race, Prospects of, 113
—— Cup Race, Times for, 184
K.L.G. R.C.I. plug (illus.), 474
K.L.M. aircraft, Gross newspaper reports regarding, 420
—— carry Empire air mail, 204
—— commercial 'plane, Germans attack, 282
—— New Fokker for, 353
—— to order Fokker F.24's, 421
—— Increase of West Indies services of, 188
—— Resumption of European services of, 241
—— Services of, 334
—— service to Scandinavia, 421
—— to South Africa, Another trip by, 188
—— Twentieth birthday of, 334
Koolhoven F.K.58, Dutch army order, 112*b*
—— F.K.58, French Air Force order, 112*b*
—— F.K.58 (illus.), 490*h*

L

La Baule party, 177
Lafayette Squadron, Formation of, 370
Laing, Air Comdr., Air Ministry appointment of, 6
Laird, Roscoe Turner's (illus.), 345
Laminated gaskets, All-metal, 408
Lamplugh, Capt. A. G. on personal insurance, 351
Lancashire Aero Club garden party, 32*c*
Lanchester, Dr. F. W., Future articles by, 372
—— Dr. F. on exhaust efflux propulsion, 396*a*, 416*d*, 460, 495
Lanchester's rocket propulsion, Letters regarding, 526
Landing speed, American view of, 208*d*
Lanoline, Uses of, 519
L'Armee de l'Air, Pilots of (illus.), 370
Leaflet dropped over Germany, Contents of first, 243
Leaflets over Germany, More dropping of, 281
Learning Morse (Book Review), 8*j*
Learning to Fly (Book Review), 160
Lee-on-Solent Fleet Air Arm unit visited,
Leicester, Brochure of City of, 383
Leigh-Mallory, Air Vice-Marshal T. L., 200
Leo 45's at Evere (illus.), 31
Les Ailes, Story of encounter from, 494
Letter, Speed of arrival in Philadelphia of, 226
Le Vier, Tony, Monoplane of (illus.), 344
Lewis, D., Flying boots of (illus.), 474
Licence for use of aluminium, 278
Light aircraft, Instruments for, 169
—— aircraft, J. P. Smith on future of, 215
—— aircraft, Special issue concerning, 218
—— Alloys, Ltd., General meeting of, 383
Lighter than Air (Book Review), 396
Lighting requirements in event of war, 169
—— Wartime factory, 340
" Linatex " rubber, Description of, 99
Lincoln Electric Co., Ltd., Carbon steel electrode of, 234
Lindbergh, Colonel, " A. Viator " on, 322
Link trainer (illus.), 474
Lion Has Wings (Film review), 354
Lioré reconnaissance 'plane (illus.), 403
Liverpool and Dublin, Service between, 448
—— German picture of, 493
—— and Isle of Man, Restricted services between, 466
Locating pin of Guest, Keen and Nettlefolds, 208
Lockheed airdraulic cantilever (illus.), 475
—— C.40-B (illus.), 339
—— Electra (illus.), 366
—— Hudsons for Australia, 228
—— Hudson, Crash during test flight of, 112
—— Hudson (illus.), 143, 342
—— *Lodestar*, Figures for, 325
—— Lodestar, Orders for, 396
—— XP-38 (illus.), 270*g*
—— Selector valve of (illus.), 475
London Air Park Garden party, 156*h*
—— Aluminium Co., Amalgamation with Williams (Birmingham) Ltd. of, 262, 340
—— Aluminium, Tail units for bombs of (illus.), 475
—— Metal Warehouses, Ltd., Non-ferrous castings of, 383
Londonderry, Lord and Lady (illus.), 117
" Lorenz " at Ringway, 139
Los bomber (illus.), 212
Low-drag engines, Correspondent on, 380
—— -flying attacks, Defence against, 86
Ludlow Hewitt, Air Chief Marshal Sir Edgar, 198
Luscombe, English agents for, 156*i*
—— Figures and illustration of, 225
Luton Major, Figures and illustration of, 219
—— Major, Sports version of, 86*g*

M

Machines, " Indicator " on modern, 512
—— Tools and Manufacturers, Ltd., Appointment of Broadway Engineering Co. as agents for, 48
Mackintosh, Capt. L. D. (illus.), 5
Macmillan, Lord on British newspaper transit, 376
Madsen machine-gun (illus.), 508*a*
—— shell-gun (illus.), 508*a*
Magnetic mines, 450
Malta, Air mail to, 376
Manston, German picture of, 493
Map of Australian air routes, 363
—— of the Kiel Canal district bombed by Royal Air Force, 257
—— of suitable American locations for seaplane operation, 252
—— " Thirty-five miles round London," 146
—— of units in pre-war Germany, 325
Marconi equipment for De Havilland *Flamingo*, 242*g*
Marcoux-Bromberg (illus.), 345
Marendaz, D.M.K. (illus.), 419
—— Trainer, Description and illustration of new, 418
—— trainer, Mention of, 447
Martin 167.W (illus.), 315
—— 167.W, Description and drawing of, 525
—— Baker, Description and illustration of, 441
Mass bombing, Igor Sikorsky on, 112*b*
Masts, Moulded tapered aerial, 99
Mayo Composite, Mention of, 447
—— Major R. H. on Atlantic air services, 246
Messerschmitt brought down (illus.), 298
—— Crash in Denmark of (illus.), 369
—— Me 109 (illus.), 242*a*, 286*a*, 433
—— Me 109's and 110's in formation (illus.), 451
—— Me 109 brought down in France, 415, 457
—— Me 109, Drawing of, 52, 242*d*, 490*g*
—— Me 109, Nose view of, 391
—— Me 109 being refuelled (illus.), 432
—— Me 110, Drawing of, 242*d*, 524
—— Me 110 (illus.), 287
—— Taifun (illus.), 156*c*
—— *versus* Hurricane, 490*e*
Messerschmitts, Description of, 286*a*
Messier undercarriages, 99
Metalastick, Testing apparatus of (illus.), 475
Metals, Official control of, 232

Meteorological flights in India, 319
—— Office stations attached to Royal Air Force, 401
Meteorology for Aviators (Book Review), 32*b*
Meters for liquid fuel, 534
Meyrowitz, E. B.,Sir Malcolm Campbell wears goggles of, 208
Milan Aero Show, Date for, 94
Milch, General (illus.), 29
Miles, F. G., Appreciation of H. W. C. Skinner by, 427
—— Magister, Aerobatic illustration of, 118
—— Magister at Brussels Show (illus.), 27
—— Magister, Figures and illustration of, 219
—— Magister, G.A. drawing of, 218*b*
—— Magister, Illustration of model of, 317
—— Magister, Mention of, 441
—— Magister, Sketch of cockpit of, 220
—— Magisters (illus.), 440*k*
—— Master, Description, illustrations and drawings of, 77
—— Master (illus.), 90, 423, 440*k*, 511
—— Sparrow Hawk (illus.), 346
Military aircraft, Britain's, 435
—— types, " Indicator " on comparison of speed of, 335
—— types, " Indicator " samples, 300
Millichamp, Figures and drawing of, 220
Mills, S., New Ellison Insulations appointment of, 208
Mine-laying in the Channel, 450
Mines dropped from aircraft (Editorial), 429
Mission to New Zealand, 7
Model flying, Effect of war on, 317
Models, 46, 120, 317, 518
Montagne, James, on Canadian aviation, 347
Morane 225's at Evere (illus.), 30
—— 406, Drawing and illustration of, 490*g*
—— M.S.406, Drawing showing armament of, 508*b*
—— 406 (illus.), 31, 305
—— 406, Illustration at Brussels Show of, 112*c*
Morrison, R. C. on American air racing, 344
Moscow-Stockholm, Winter service between, 353
Moseley and Sons to help Red Cross, 340
Mosers, Ltd., Air Raid Precautions catalogue of, 146
Mosscraft, Figures and illustration of, 220, 447
—— trainer, G.A. drawing of, 218*c*
Muirhead, Lt.-Col., Death of, 351
Murphy " Over and under " (illus.), 346
Murray, Sqn.-Ldr. S. S. (illus.), 299
McKenna, F. (illus.), 396
McPherson, A., awarded D.F.C., 367

N

Napier Dagger VIII, Description of, 463
—— Dagger VIII (illus.), 464*c*
National Air Communications, Work of (Editorial), 264
—— Air Race, R. C. Morrison on, 345
—— Defence Reference Book, 480
—— Fire Protection Co. Ltd., Fire extinguishers of, 99, 192
—— Pigeon service, 497
—— Service volunteers, Eligibility of, 82
Natural *versus* " Ersatz," 334*e*
Navigation, Training in Scotland in, 156*f*
Navigator of Vickers-Wellington (illus.), 497
Navy, German attempt to cripple British (Editorial), 328
N.C.110, Illustration of projected, 27
—— 2234, Figures for, 97
—— 600 at Brussels Show (illus.), 27
Negatives being received, Enemy territory (illus.), 332
Negretti and Zambra, Aneroid barometer of (illus.), 476
Neutral air lines to Britain, " A. Viator " on, 376
—— airline companies, Colour scheme of, 506
—— ships, Germany attacks (Editorial), 521
Neutrality Act, First order to leave America after, 407
Newall, Air Chief Marshal Sir Cyril, 29, 198
—— Air Chief Marshal Sir Cyril, visits British Expeditionary Forces, 504
—— Air Chief Marshal Sir Cyril, meets General Gamelin, 298
Newfoundland airport, Electrical equipment at, 490
Newspapers abroad, lack of British, 334
—— to France, Imperial Airways to carry, 353
New York and Paris, Service between, 407
—— York's new airport opening (illus.), 407, 421
—— York's new air base from the air (illus.), 406
—— Zealand air base (illus.), 374
—— Zealand air base, Completion of, 56
—— Zealand, Airlines in, 466
—— Zealand, Mission to, 7
—— Zealand squadron, Suggestion of forming, 497
—— Zealand to supply personnel, 283
Nife Batteries, Ltd., Emergency lighting equipment of, 146
Night landing, Rotax Harley system of, 233
North American Harvards (illus.), 482
—— Atlantic service, Sir Alan Cobham on refuelling the, 358
—— -Eastern Components, Ltd., 170
—— Sea brush, 313
—— Sea service, Another, 302
—— Sea, Warships bombed in, 457
Northern Aluminium Co., No increase in prices of, 278
—— Aluminium Co., Sales engineering bulletin of, 326
—— Heights Model Flying Club Gala, Description and illustration of winning model at, 46
Nuffield, Lord, Appointment to Air Force of, 371, 372

O

Oerlikon gun (illus.), 508*a*
Oil, Germany's lack of (Editorial), 279
Oil in Scotland, Exploration work for, 146
Opperman, S. E., Increased capital of, 383
Outlook, 1, 21, 49, 75, 101, 123, 147, 171, 195, 209, 235, 249, 263, 279, 295, 307, 327, 341, 361, 385, 409, 429, 454, 483, 501, 521
Overseas markets, E. C. Gordon England on, 434
Oxford aerodrome, Public use licence for, 86*g*
—— Flying Club, New, 116
—— University and City Gliding Club, New, 202

P

Pacific, Survey flight over, 110
Palmer, Brake of (illus.), 476
—— Joy-stick of (illus.), 476
Pan-American Airways' *American Clipper*, Slight mishap to, 390
—— -American Airways' *Californian Clipper* (illus.), 37
—— -American Airways' New Zealand-America service, 186, 204, 226
—— -American Airways order six Boeing 314's, 353
—— -American Airways' regular Atlantic service, 16
—— -American Airways' services unaffected by Neutrality Act, 407
—— -American Airways' Sikorsky S.42, Crash of, 158
Pangborn, Clyde, sails for America, 421
Paper, Economy during 1918 war in using (Editorial), 430
Parachute practice (illus.), 388
Paris and New York, Service between, 407
—— Royal Air Force squadrons demonstrate over, 65
Parnall Aircraft Co., Progress of, 383
—— Aircraft, Rivet cabinet of, 146
—— 382, G.A. drawing of, 218*b*
—— 382, Figures and illustration of, 221, 444
Pashley, C. L., Dinner to, 111
Passengers carried, Comparison between number of American and British (Editorial), 1
Paula, F. R. M. de, War Office appointment of, 396*d*
Peirse, Air Vice-Marshal R. E. C. (illus.), 402
—— Air Vice-Marshal R. E. C., New appointment of, 377
Penetration of Projectiles, 426
Percival Aircraft, New address of, 146
—— Mew Gull, Figures for, 222
—— Mew Gull (illus.), 2
—— Proctor, Description and illustration of, 441
—— Proctor, Figures and illustration of, 221
—— Proctor, G.A. drawing of, 218*b*
—— Q.6, Figures and illustration of, 222, 447
—— Vega Gull, Cabin layout of, 222
—— Vega Gull (illus.), 112
—— Vega Gull, Mention and illustration of, 441
Performance estimation, C. F. Toms on, 294*a*
Perrin, Harold E., on International Aviators' Certificate, 372
Perry, H. W., on picking up mails, 242*e*
Pershore, Civil Air Guard activities at, 121
Perth, Illustration of delegates at, 15
Petro-flex XHP tubing (illus.), 476
Philips' Lamps, Discharge lamp pamphlet of, 340
Phœnix dust extractor, 306
Phosphor Bronze Co., New directorate for, 340
Photograph of enemy territory, 331
Photographs taken by Royal Air Force, Report of, 310
Piaggio P-32 (illus.), 182*a*
Pigeon post, Inauguration by H.R.H. Duchess of Kent of, 86*f*
—— service, National, 497
Pilot, How to become a war, 302
Pilot's Summer (Book Review), 112*h*
Pilots, Aerodrome quarters of (illus.), 309
—— from Canada (illus.), 530
Pin by Short Bros., New locating, 170
Pinkerton, Flt.-Lt. G. C., awarded Distinguished Flying Cross, 458
Pinnace, Adventure of Royal Air Force, 350
Pioneer Aircraft Co., Instrument lighting of, 360
Pipe coupling, Crownall, 278
Piper Cub, Figures and illustration of, 226
Plantagenet Rally, Date of, 32
—— Rally, Entries for, 88*a*
Plastic, New type of, 533
Plastilume Products, Death of director of, 384
Playfair, Air Vice-Marshal P. H. L., 199, 503
—— Air Vice-Marshal P. H. L., H.M. King's message to, 523
Plessey two-way D/F equipment (illus.), 8*f*
Pobjoy Niagara V, Description of 463
Poland, German aircraft in, 297
Poland's equipment, 211
Poles (1938) Ltd., Adastra poles of (illus.), 477
Polish airmen in training, 510
Polish Government, Removal from Warsaw of, 245
Postal rates to France, 423
Potez 63, Drawing of, 329
—— 63 (illus.), 229
—— 63, Illustration at Brussels Show of, 112*c*
Prague, K.L.M. re-open service to, 108
Pratt and Whitney Double Wasp engine, Introduction of, 248
—— and Whitney Double Wasp, Illustration of nose and wing installations of, 270*h*
—— and Whitney New 18-cylinder radial of, 86
Primer of Flying, A (Book Review), 396
Primrose, Group-Capt. H., Criticism of Imperial Airways-British Airways merger by, 37
Private machines, Removal of, 422
—— owners, " Indicator " on inevitable increase in number of, 166
Projectile, Penetration of, 426
Prototypes, Some German, 530*a*
Publications received, 194, 306, 360, 384, 428, 500, 534
P.Z.L. Mewa (illus.), 212
—— P.11 fighters (illus.), 211
—— P.23 (illus.), 213
—— Sum (illus.), 213
—— Wilk fighter (illus.), 213

Q

Q Planes (Film Review), 132
Qantas Empire Airways, Services of, 364
Queen Bee, Miles Henslow on flight with a, 182*b*
—— H.M., visit to Balloon Barrage Group (illus.), 328
Questions and Answers on Air Force Law, 600 (Book Review), 32*b*

R

Radio and Range, " Indicator " on, 189
—— beams in Australia, 364
—— control in model aircraft, 317
—— -controlled target, 451
—— for the Royal Air Force, 497
—— sonde, 139
—— stations, Indian new, 202*c*
Raiders, Scouting for (Editorial), 341
" Raiding by Celestial Navigation," 156*d*, 182*e*, 202*f*, 237
Rally from Algiers, Proposal of air touring, 113
" Reciproscope," Description and illustration of, 140
Reconnaissance by German aircraft (Editorial), 409
—— flights over Berlin, Royal Air Force make, 284
—— flights, Royal Air Force make deeper, 284
—— flights by Royal Air Force, 299, 313, 333, 350, 414, 492
Record, Confirmation of world's speed, 133
—— Soviet international speed, 316
Records, Official confirmation of National gliding, 113
Recruiting, Sir Kingsley Wood on, 310
Red Cross, Appeal by Duke of Gloucester for, 270
—— Cross, D. Moseley and Sons help, 340
Redhill, Civil Aviation Benevolent Fund's display at, 117
Reed, Austin, Branches of, 69
Refuelling from a car (illus.), 382
—— Sir Alan Cobham on, 358
—— of *Cabot* (illus.), 138
Reid and Sigrist Trainer at Brussels Show (illus.), 28
Renard R.37 Mock-up (illus.), 24
—— R38, Description and illustration of Merlin-powered 12*b*
—— R.38 (illus.), 89
Report on Health of Royal Air Force in 1937 (Book Review) (Editorial), 22
Republic Aviation Corporation, 359
" Reserved calling," Pilot to return to, 349
Reversible pitch airscrew, Use for, 86*g*
Reynolds Tube Co.,Advice to businessmen of, 326
Rhine, Bridge over (illus.) 308
—— Severed pontoon bridge on (illus.), 362
Rhodesian display, 180
Richards, E. J., on solution of simultaneous equations, 208*c*
Richardson, J. A., Death of, 57
Rickenbacker, Capt. Eddie (illus.), 193
Rider, Keith " Eightball " (illus.), 345
Riverdale, Lord (illus.), 517
Robinson, Group-Capt. F. L., Retirement of, 33
Rohrbach, Dr. Adolph, Death of, 41
Rollason, Capt. W. A., leaves Rollasons Ltd., 208
Rollasons, New repair shops of, 98
Rolls-Royce, Allowances to employees of, 466
—— -Royce, Description and illustration of aero engines of, 86*i*
—— -Royce Kestrel XXX (illus.), 464*b*
—— -Royce Merlin X (illus.), 463, 464*a*
—— -Royce Merlins, Mention of various, 463
—— -Royce, Opening of new factory at Crewe of, 70, 89
—— -Royce Merlin power unit, Description of, 99
Rome and New York, Proposed service between, 421
—— and Rio, Service between, 390
Rossi, Record flight of, 197
Rotating Wing Aircraft meeting, 496
Rotax-Harley lamp (illus.), 234
—— -Harley lighting system, 233
—— Ltd., Equipment of, 520
—— magneto (illus.), 477
Rotherhams of Coventry, New folder of, 428
Royal Aero Club Official Notices, 17, 32, 64, 86*a*, 113, 133, 168, 177, 202*d*, 372
—— Aero Club, Reception for model glider competitors at, 86*a*
—— Aero Club, Terms of membership of, 64
—— Aeronautical Society, Effect of war on, 351
—— Air Force casualty list, 272, 288, 319, 354, 377, 401, 423, 432, 488, 511
—— Air Force College journal, Cessation of publication of, 319
—— Air Force College, Passing out awards of, 112
—— Air Force Dinners, dances and reunions: Gosport, 85; India aircraft depot, 180
—— Air Force, Flight over France by, 65, 82
—— Air Force, Formation of technical branch of (Editorial), 123
—— Air Force Gazette, 7, 33, 68, 83, 112, 141, 161, 181, 245, 260, 272, 288, 319, 336, 355, 377, 424, 452, 481, 498, 511, 531
—— Air Force in France, Map-reading of (illus.), 503
—— Air Force Medical services, Advanced rank for, 205
—— Air Force, Militiamen received by, 82
—— Air Force, Mobilisation of, 227
—— Air Force, New Staff College for, 33, 50, 66
—— Air Force, Number of recruits in, 82, 205

Royal Air Force Observer Corps, Air Ministry takes over, 205
—— Air Force officers, Pay of (Editorial), 382
—— Air Force promotions, 6
—— Air Force, Re-equipment in India of, 181
—— Air Force reservists, Calling up of, 82
—— Air Force save ship's crew, 265
—— Air Force sports meetings, 180
—— Air Force stations, H.M. King visits, 367
—— Air Force, Successful bombing of Kiel Canal by (Editorial), 210
—— Air Force, Tradesmen required for, 272
—— Air Force units visited: South Cerney, 86b; No. 4 Squadron, 112e
—— Air Force, Vacancies for technical officers in, 227
—— Air Force Volunteer Reserve, Expansion of, 180
—— Air Force Volunteer Reserve. New accountant branch of, 205
—— Air Force Volunteer Reserve, New aerodromes for, 33
—— Air Force Volunteer Reserve, New centres for, 82
—— Australian Air Force, Michael Terry on, 387
—— United Services Institute to remain open, 354
Royle, Vice-Admiral Guy C. C. (illus.), 452
Rubery, Owen, Messier Ltd., Formation of, 99
Rumania, Bristol Blenheims for, 448
Runways, Erection of steel, 332
—— Use of salt for, 204
Russian bomber brought down in Finland (illus.), 523
—— remains (illus.), 499

S

Saar, Battle over, 400
S.A.B.E.N.A., Resumation of European services of, 241, 256
Salmond, Sir John visits Air Defence Cadet Corps at Hove, 350
Salt used for Canadian runways, 204
Sankey, J. H. and Sons, Brochure of, 146
Sassoon, Sir Philip, bequest, 180
Saul, Air Vice-Marshal R. E., Appointment to new command of, 82
Saunders, Capt. (illus.), 517
—— -Roe Lerwick (illus.), 228, 401, 440b, 490d
—— -Roe Lerwick, Mention and illustration of, 442
—— -Roe Lerwick in works (illus.), 6
—— -Roe, Opening of staff club of, 99
Savoia Marchetti S.79, Drawing of, 53
—— Marchetti SM85 (illus.), 182a
Scandinavia, K.L.M. service to, 421
—— and Berlin Service between, 421
Schoenfeldt "Firecracker," Mention of, 345
Schofield, Capt. (illus.) 265
Schumacher, Wing Commander, on Wellington *versus* Messerschmitt, 524
Scientific and Industrial Research Committee, Members of, 398d
Scilly Isles, New aerodrome in, 187
Scotland, Air raid on, 313
Scottish Airways, Guide to air routes of, 139
—— Airways, New air mail service of, 300g
—— Airways, Various changes in, 448
Scott-Paine, Mr. (illus.), 12
Seaplane operation, Map of suitable locations for, 252
—— training at Kiel-Holtenau, 190
Security Patrols (Editorial), 501, 505
Serenity, Bombing of motor ship, 505
Service Aviation, 6, 33, 65, 82, 112, 141, 161, 180, 205, 227, 272, 288, 303, 319, 336, 354, 377, 401, 423, 452, 481, 497, 510, 531
—— training, United States commence, 86
Services, "A. Viator" on resumption of, 334, 352
—— Many useful wartime (Editorial), 236
—— New, 353, 465
—— Various resumptions of, 241, 256, 302, 334h, 352, 421
Seversky Aircraft Corporation, Change of name of, 359
—— fighters, Sweden places contract for, 86
Sharvell, H.L., Model biplane of, 518
Shell-gun, Illustration of American Armaments Corporation, 26
Shephard Memorial Prize, Suspension of, 377
Shetland Islands, Bombs drop on (Editorial), 386
Shipp, J. C. K., on calculating a conventional cantilever wing, 340a
Ships, Attacks on moving (Editorial), 328
——in North Sea, Attack on convoy of, 332
Shoreham airport, "A. Viator" on, 506
—— Dawn patrol at, 156f
Short Bros., Annual general meeting of, 520
—— Bros. Ltd., Souvenir booklet of H.M. King's visit to, 146
——"C" class boat (illus.), 158c
—— "C" class boats on England-India route, 16
—— Empire boat *Corio* (illus.), 364
—— "G" class boat, Description, 447
—— "G" class boats, Names of, 407
—— *Golden Fleece*, Acceptance tests of, 407
—— *Golden Hind* described and illustrated, 584
—— *Golden Hind* (illus.), 93, 96, 445
—— and Harland Hereford, Drawing of, 343
—— and Harland Hereford (illus.), 454
—— and Harland Hereford, Mention and illustration of, 443
—— landplanes, Figures for three new, 109
—— and Mason, New instrument catalogue of, 383
—— Mayo Composite (illus.), 246
—— Sunderland, Description and illustration of, 442
—— Sunderlands (illus.), 310, 440f
Siegfrid Line, Air battle over, 297
Sikorsky, Igor, on mass bombing, 112b
—— S.42, Crash of, 158
Sikorsky S.43 (illus.), 156c
Silentbloc Ltd., Exhibits at Olympia of, 170
Simmonds Aerocessories, Court action by, 122
Singapore, Blenheims for, 180
—— -Sydney service, Change in, 204
Sinterae beacon, 140
Skefko, Ball bearings of (illus.), 478
Skinner, H. W. C., Appreciation of, 427
—— H. W. C., Death of, 417
—— H. W. C. (illus.), 417
Smith, J. P., on future light aircraft, 215
—— T. M. W., awarded D.F.C., 367
Smith-Barry, Col., Gosport reunion dinner speech by (Editorial), 76
Smiths Aircraft Instruments to manufacture Ciamberline anemometer, 262
Smoke screen of the French (illus.), 505
Society of British Aircraft Constructors, Election of new president for, 113
—— of British Aircraft Constructors, Scholarships of, 110
—— of Model Aeronautical Engineers, Date for glider contest of, 47
—— of Model Aeronautical Engineers in wartime, 519
Soil stabilisation, 48
South Africa, Training in, 312
—— Africa, Trip by K.L.M. to, 188
—— America, British service postponed to, 158
—— American airport (illus.), 515
—— Atlantic, Crossing by *Nippon* of, 334
—— Atlantic, High altitude crossing of, 325
—— Atlantic, Service across, 390
—— Cerney, Visit to, 86b
Southern Rhodesia, Subsidy in, 121
Soviet Army, Entry into Poland of, 260
—— International speed record, 316
Spaight, J. M., on breadth and depth in air strength, 63
Speed, "Indicator" on effects of, 335
Sperry Gyroscope, Gyropilot of (illus.), 478
Spitfire, Action picture booklet of, 480
Squadron birthday, 269th, 497
—— of Royal Air Force, Australian, 497
—— First all-Canadian, 497
Stack, Capt. T. Neville, Injury to, 110
—— Capt. T. Neville, Recovery of, 241
Stall, Killing the, 340a
Stearman Hammond (illus.), 216
—— Trans-Air 17, 214
Stevensen, Group-Capt. D. F., Appointment of H.M. King of, 33
Stinson Reliant, Description and illustration of 1939 model of, 47, 226
—— Reliant (illus.), 242e
Stockholm and Perth, Service between, 421, 507
"Stratosphere Airship," Humorous letter regarding, 132
Stratospheric North Atlantic test flights, 16
Subsidy for airlines, Civil Aeronautics Authority on, 528
Summary of war activities over two months, 524
Supermarine Spitfire cockpit (illus.), 424
—— Spitfire, Drawing and illustration of, 490f
—— Spitfires (illus.), 152, 196, 258, 312, 440a
—— Spitfire, Mention and illustration of, 443
—— Spitfire at night (illus.), 522
—— Stranraer (illus.), 440f
—— Walrus (illus.), 444
Supply Council, Members of new, 271
Supremacy in air, Varied opinions on (Editorial), 295
Swastikas on French aircraft, 450
Sweden and Finland, Renewed service between, 507
—— Seversky fighters for, 86
Swedish flying meeting, 202d
Sydney Harbour (illus.), 365
—— -Singapore service, Change in, 204
Synchronised Civil Air Guard certificates, 17

T

Tail wheel, New British Landing Gear type of, 32c
Tampier, R., Throttle box controls of (illus.), 478
Tapers, Moulded synthetic, 20
Target, Radio controlled, 451
Targets, German choice of (Editorial), 328
Tasman service, Imperial Airways' boats on, 186
Taylor, H. A., on civil aviation and the war, 449
—— J. Lockwood, on induced drag, 122f
Taylorcraft Plus, Description and illustration of, 114 448
—— Plus, Figures and illustration of, 223
—— Plus, G. A. drawing of, 218c
—— Plus, Sketch of, 222
Teleprinters in Vienna (illus.), 432
Terry, Michael (illus.),
—— ——on The Royal Australian Air Force, 387
The Theory and Use of the Complete Variable (Book Review), 416c
Thompson Air race, Details of, 346
—— P/O A.B. (illus.), 299
Thomson, Air Commodore A. A. B. (illus.), 200
Thurso, Fairmit to be issued from, 466
Tilton, Capt. J. (illus.), 375
Timm Aircraft Corporation trainer, Description and illustration of, 508
Tipsy two-seater, Figures and illustration of, 223
—— two-seater, G.A. drawing of, 218c
Toms, C. F., on estimation of performance, 294a
Tools, Cemented carbide, 74
Topics of the Day, 58a, 95, 134, 166, 189, 201, 242, 300, 314, 335, 373, 422
Train, French Air Ministry recruiting, 156a
Training costs in Africa, 86d
—— United States commence Service, 86
Trains bombed by Messerschmitts, 416
Trans-Air 17, 214
—— -Canada Air Lines extension to Moncton, 15
—— -Canada Air Lines, Figures of, 530
—— -Canada Air Lines, New services of, 465
—— -Canada Air Lines air progress, 353
Trawlers attacked by Germans, 524
Troops carried, Small number of (Editorial), 172, 181
Two-Stroke Motor Cycles and Autocycles (Book Review), 262
Tyson, Flt.-Lt. (illus.), 359

U

U-boat, Royal Air Force sinking of, 266, 284, 333
United States Army Air Corps, New branch of, 339
—— States Army Air Corps song, 425
Units, Formation and Movements of (Editorial), Women's Auxiliary Air Force, 2
Unitwin engine fitted to Vega Starliner, 248
U.S.S. *Saratoga*, Illustration of flying deck of, 33
Uwins, Capt. C. F. (illus.), 193

V

Van Dorn, New electric tools of, 328
—— Keuren Company, Issue of catalogue of, 145
V.D.M. spinner, Description and drawings of, 73
V.E.F. J.12, Description and illustration of, 156g
—— J.12 at Ronaldshay (illus.), 500
—— Minox camera, Description and illustration of, 500
Vega Airline Company, Extension to works of, 248
—— monoplane (illus.), 35
—— Starliner, Details of, 248
Vickers-Armstrong K machine-gun, Description of, 86f
—— -Armstrong Wellington demonstration (illus.), 485
—— -Armstrong Wellington, Description and illustrations of, 8a, 444
—— -Armstrong Wellington (illus.), 22, 23, 169, 280, 311, 336
—— -Armstrong Wellingtons, Squadron of, 29
—— Ltd., Interim dividend of, 340
—— -Supermarine Speed Spitfire at Brussels Show (illus.), 24
—— -Supermarine Spitfires (illus.), 65, 90, 91
—— Vildebeest (illus.), 319
—— -Wellington, Correction regarding performance of, 67
Vienna, Defence of, 432
Virtue & Co. handle *How We Fly*, 353
Vokes air filter fitted to Westland Lysander (illus.) 479,
—— Ltd., Annual general meeting of, 428
Volunteer Reserve in India, 401
—— Reservists on leave, 423
Vuillemin, General (illus.), 29
Vultee fighter, Drawing of, 525
—— New single-seater, Mention of, 345
—— twin-engined fighter, Proposal for, 86

W

Waddington, J. I., on impressions of American engine factories, 251, 263, 270g
Wadkin radial arm (illus.), 480
Wakefield, C. C. and Co., Free issue of wind-cones by, 145
—— Challenge Trophy, Final particulars concerning (Editorial), 123, 132
—— Cup, America retain the, 317
Walker, F/O P. E. W., posted as missing, 519
Wallace, G. F., on Gun Recoil, 416a
War, Discussion on declaration of (Editorial), 209
—— Discussion regarding the (Editorial), 195, 249, 295, 307
Warsaw, Fall of, 283
"War in the Air," 243, 257, 265, 281, 297, 309, 330, 348, 367, 397, 411, 450, 457, 492, 503, 523
War tactics (Editorial), 483
Waziristan, H. M. King grants awards for gallantry in, 354
Weather reports banned by censor, 507
—— soundings, Radio sonde for, 139
West African-Khartoum service, Agreement between Air Ministry and Imperial Airways on, 37
Western Airways offices at Ringway, 16
—— Airways, Record number of passengers carried by, 167
West Indies, Increase of K.L.M. services in, 188
Westland Aircraft, Development of, 520
—— Lysander, Initial flight of Canadian, 288
—— Lysander II, Mention and illustration of, 444
—— Lysanders (illus.), 112d, 227, 311, 440e, 531
—— Wapitis (illus.), 390
Weston-Cardiff air ferry, Resumption of, 421
White, F. E. (illus.), 408
—— J. Samuel and Co. Ltd., Dividend of, 340
—— J. Samuel & Co. Ltd., General meeting of, 534
—— J. Samuel & Co. Ltd., New address of, 48
Wild Barfield, Exhibits at Olympia of, 170
—— Barfield furnace (illus.), 480
Wilhelmshaven, Royal Air Force bomb warship at, 257
Wilk fighter (illus.), 213
Wilkes, Group-Capt. T. M. (illus.), 375
Wilkinson Rubber Linatex Ltd., 99
Williams (Birmingham) Ltd., acquire London Aluminium Company, 340
Williamson and Co. Ltd., Annual dinner of, 519
—— W. and A., Equipment made by, 72
Willits, W., awarded D.F.M., 357
Willoughby Delta, Accident to, 62

Wills, Philip, in Minimoa (illus.), 11
Wilmot-Breeden, Electro-plating plant of, 278
Wind, Sand and Stars (Book Review), 318
Wireless World, Monthly publication of, 353
Wirraways, Building at Melbourne of (illus.), 364
—— Cost of, 531
—— (illus.), 387
—— Rate of production of, 517
—— The first, 319
Wittman Special (illus.), 345
Women ferry pilots, 490
Women's Air Rally at Romford, Date for, 202*c*
Air Reserve, Cheap flying rates for National, 47
Women's Auxiliary Air Force, Formation of, 6
—— Auxiliary Air Force (illus.), 84
Wondegrip litigation, 122
Wood Sir Kingsley, at Air Service Training (illus.), 8
—— Sir Kingsley, at Armstrong-Siddeley (illus.), 8
—— Sir Kingsley, Date for visit to Belfast of, 66
—— Sir Kingsley, involved in accident to DH.86 (Editorial), 101, 107
—— Sir Kingsley, on officers' pay (Editorial), 362
—— Sir Kingsley, on recruiting, 310
—— Sir Kingsley, Report on Royal Air Force by, 503
—— Sir Kingsley's speech on British aircraft progress (Editorial), 1
Wood Sir Kingsley, Speech on war work of Royal Air Force by, 307, 309
—— Sir Kingsley, visits British Power Boat Co. (illus.), 12
—— Sir Kingsley, visits Royal Air Force in France, 333
—— Sir Kingsley, visits High Duty Alloys Ltd., 191
World Owes Me a Living (Book Review), 32*b*
Wright double-row Cyclone 14, Description of, 334*f*
Wright 36-cylinder radial, 197
Wyndham, R. A. (illus.), 419

Y

Yapp, F. C., New appointment of, 278

Printed at The Chapel River Press, Andover, Hants.